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	APPLICATION NO.	FILING	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/006,040		12/04/2001		Thomas Birnbaum	000423	9559	
	23696 7590 03/29/2004		03/29/2004		EXAM	EXAMINER	
Qualcomm Incorporated					CLINGER,	CLINGER, JAMES C	
	Patents Depart	ment					
5775 Morehouse Drive					ART UNIT	PAPER NUMBER	
	San Diego Ca	4 92121-17	714	2821		_	

DATE MAILED: 03/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/006,040	BIRNBAUM ET AL.					
Office Action Summary	Examiner	Art Unit					
	Jim Clinger	2821					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 18 Fe	ebruary 2004.						
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.						
3) Since this application is in condition for allowar closed in accordance with the practice under E							
Disposition of Claims							
 4) Claim(s) 1,3-17,19-28 and 30 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,3-17,19-28 and 30 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Application Papers							
9) The specification is objected to by the Examine	т.						
0) \boxtimes The drawing(s) filed on <u>21 May 2002</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correcti 11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 3, 6-7, 13-17, 19, 22-28 and 30 are rejected under 35 U.S.C. 102(e) as being anticipated by Mikkonen et al.(6,614,405).

Claims 1, 17 and 28, figures 16-17 disclose a shield(1) in electrical contact with an antenna(8) and a spacer(angled portion connecting the shield to the antenna) that is oriented to provide a separation between the two where the shield has a top and plurality of side panels.

Claims 3 and 19, the antenna(8) is a PIFA.

Claims 6 and 22, the shield(1) and the antenna(8) are formed from metal.

Claims 7 and 23, the shield(1) and the antenna(8) are formed from conductive material.

Claims 13-14 and 24-25, an electromagnetic source(9), sink(5) and pcb(6) are disclosed in figures 16-17.

Claims 15-16, 26-27 and 30, circuitry as recited is disclosed(col. 2, lines 37-43).

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Claim Rejections - 35 USC § 103

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3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 4-5, 8-12 and 20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mikkonen in view of Honda et al.(6,414,642).

Mikkonen does not disclose all of the recited dmanufacturing steps or antenna shapes.

Claims 4 and 20, Honda discloses a slot antenna(fig. 2, no. 40).

Claims 5 and 21, Honda discloses a dipole antenna(col. 1, lines 37-38).

Claims 8-10, these steps are disclosed in or obvious over the disclosure of Honda(col. 4, lines 20-22) and Mikkonen(col. 1, lines 16-18).

Claims 11-12, molding is obvious over the disclosure of Mikkonen(col. 1, line 19)

The antenna shape and manufacturing steps disclosed in Honda provides a compact antenna with shielding characteristics(col. 2).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use the steps and shapes disclosed in Honda with the device disclosed in Mikkonen for an improved device as disclosed in Honda. Art Unit: 2821

Response to Arguments

- 5. Applicant's arguments with respect to claims 1, 3-17, 19-28 and 30 have been considered but are moot in view of the new ground(s) of rejection.
- 6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Correspondence

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Jim Clinger whose phone number is (571) 272-1820.

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center whose telephone number is (703) 308-0956.

Papers related to Technology Center 2800 applications only may be submitted

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to Technology Center 2800 by facsimile transmission. Any transmission not to be considered an official response must be clearly marked "DRAFT". The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Technology Center Fax Center number is (703) 872-9306.

James C. Clinger

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